

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WH2XOJ

(Call Sign)

XC FX MO

(Class of Station)

0237-EX-CR-2021

(File Number)

NAME Lockheed Martin Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(c) of the Commission's Rules

Station Locations

(1) Owego (TIOGA), NY - NL 42-05-50; WL 76-13-28

(2) MOBILE: Owego, NY, within 160 km, centered around NL 42-05-50; WL 76-13-28

Frequency Information

Owego (TIOGA), NY - NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.24 MHz	FX	3K00J3E	50 W (ERP)	
14.305 MHz	FX	3K00J3E	50 W (ERP)	
17.91 MHz	FX	3K00J3E	50 W (ERP)	
20.525 MHz	FX	3K00J3E	50 W (ERP)	

This authorization effective May 01, 2021 and
will expire 3:00 A.M. EST May 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Owego (TIOGA), NY - NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21.3 MHz	FX	3K00J3E	50 W (ERP)	
23.25 MHz	FX	3K00J3E	50 W (ERP)	
24.68 MHz	FX	3K00J3E	50 W (ERP)	
27.55 MHz	FX	3K00J3E	50 W (ERP)	
28.5 MHz	FX	3K00J3E	50 W (ERP)	
137.75 MHz	FX	35K0A1E	150 W (ERP)	
139.5 MHz	FX	8K20A3E	159 W (ERP)	
142.5 MHz	FX	8K20A3E	150 W (ERP)	
145 MHz	FX	11K0F3E	512 W (ERP)	
147 MHz	FX	8K20A3E	150 W (ERP)	

Frequency Information

Owego (TIOGA), NY - NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.5 MHz	FX	11K0F3E	512 W (ERP)	
156.3 MHz	FX	10K4F3E	150 W (ERP)	
163.5 MHz	FX	11K0F3E	512 W (ERP)	
163.55 MHz	FX	8K10F1D	512 W (ERP)	
164 MHz	FX	11K0F3E	512 W (ERP)	
164.8875 MHz	FX	8K10F1E	512 W (ERP)	
165.3 MHz	FX	8K10F1E	512 W (ERP)	
166.5125 MHz	FX	8K10F1E	512 W (ERP)	
170 MHz	FX	8K10F1E	512 W (ERP)	
170.5 MHz	FX	11K0F3E	512 W (ERP)	

Frequency Information

Owego (TIOGA), NY - NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
171 MHz	FX	8K10F1E	512 W (ERP)	
173 MHz	FX	8K10F1E	512 W (ERP)	
173.5 MHz	FX	11K0F3E	512 W (ERP)	
173.7 MHz	FX	8K20A3E	150 W (ERP)	
173.75 MHz	FX	11K0F3E	512 W (ERP)	
225 MHz	FX	8K20A3E	150 W (ERP)	
230.025 MHz	FX	10K0F3E	150 W (ERP)	
230.5 MHz	FX	35K0A1E	150 W (ERP)	
240 MHz	FX	10K4F3E	150 W (ERP)	
240.7 MHz	FX	35K0A1E	150 W (ERP)	

Frequency Information

Owego (TIOGA), NY - NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
245.025 MHz	FX	10K4F3E	150 W (ERP)	
343.05 MHz	FX	8K20A3E	150 W (ERP)	
343.8 MHz	FX	35K0A1E	150 W (ERP)	
346.45 MHz	FX	10K4F3E	150 W (ERP)	
350.05 MHz	FX	8K20A3E	150 W (ERP)	
350.5 MHz	FX	8K20A3E	150 W (ERP)	
358.85 MHz	FX	10K4F3E	150 W (ERP)	
379.85 MHz	FX	8K20A3E	150 W (ERP)	

MOBILE: Owego, NY, within 160 km, centered around NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.24 MHz	MO	3K00J3E	25 W (ERP)	

Frequency Information

MOBILE: Owego, NY, within 160 km, centered around NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.305 MHz	MO	3K00J3E	25 W (ERP)	
17.91 MHz	MO	3K00J3E	25 W (ERP)	
20.525 MHz	MO	3K00J3E	25 W (ERP)	
21.3 MHz	MO	3K00J3E	25 W (ERP)	
23.25 MHz	MO	3K00J3E	25 W (ERP)	
24.68 MHz	MO	3K00J3E	25 W (ERP)	
27.55 MHz	MO	3K00J3E	25 W (ERP)	
28.5 MHz	MO	3K00J3E	25 W (ERP)	
137.75 MHz	MO	35K0A1E	15 W (ERP)	
139.5 MHz	MO	8K20A3E	15 W (ERP)	

Frequency Information

MOBILE: Owego, NY, within 160 km, centered around NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
142.5 MHz	MO	8K20A3E	15 W (ERP)	
145 MHz	MO	11K0F3E	50 W (ERP)	
147 MHz	MO	8K20A3E	15 W (ERP)	
150 MHz	MO	11K0F3E	50 W (ERP)	
150.5 MHz	MO	11K0F3E	50 W (ERP)	
156.3 MHz	MO	10K0F3E	15 W (ERP)	
163.5 MHz	MO	11K0F3E	50 W (ERP)	
163.55 MHz	MO	8K10F1D	50 W (ERP)	
164 MHz	MO	11K0F3E	50 W (ERP)	
164.8875 MHz	MO	8K10F1E	50 W (ERP)	

Frequency Information

MOBILE: Owego, NY, within 160 km, centered around NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
165.3 MHz	MO	8K10F1E	50 W (ERP)	
166.5125 MHz	MO	8K10F1E	50 W (ERP)	
170 MHz	MO	8K10F1E	50 W (ERP)	
170.5 MHz	MO	11K0F3E	50 W (ERP)	
171 MHz	MO	8K10F1E	50 W (ERP)	
173 MHz	MO	8K10F1E	50 W (ERP)	
173.5 MHz	MO	11K0F3E	50 W (ERP)	
173.7 MHz	MO	8K20A3E	15 W (ERP)	
173.75 MHz	MO	11K0F3E	50 W (ERP)	
225 MHz	MO	8K20A3E	15 W (ERP)	

Frequency Information

MOBILE: Owego, NY, within 160 km, centered around NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
230.025 MHz	MO	10K0F3E	15 W (ERP)	
230.5 MHz	MO	35K0A1E	15 W (ERP)	
240 MHz	MO	10K4F3E	15 W (ERP)	
240.7 MHz	MO	35K0A1E	15 W (ERP)	
245.025 MHz	MO	10K4F3E	15 W (ERP)	
343.05 MHz	MO	8K20A3E	15 W (ERP)	
343.8 MHz	MO	35K0A1E	15 W (ERP)	
346.45 MHz	MO	10K4F3E	15 W (ERP)	
350.05 MHz	MO	8K20A3E	15 W (ERP)	
350.5 MHz	MO	8K20A3E	15 W (ERP)	

Frequency Information

MOBILE: Owego, NY, within 160 km, centered around NL 42-05-50; WL 76-13-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
358.85 MHz	MO	10K4F3E	15 W (ERP)	
379.85 MHz	MO	8K20A3E	15 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (4) Coordinate with the local SBE frequency coordinator prior to accessing the frequencies 163.5-173 MHz.
- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number N00019-14-C-0050. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (6) Stop buzzer is Daniel Shea at (607) 751-5447 and (607) 751-5209.